# In the Claims:

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1. A switching center for a communications system that provides communications services to customers having wireless and other communications devices, comprising:

a first interface, the first interface receiving and sending digital messaging having a first protocol;

a second interface, the second interface receiving and sending digital messaging having a second protocol; and

a processor system coupled to the first and the second interfaces, wherein the processor system controls operation of the first and the second interfaces and generates control messages for sending by the first and the second interfaces.

- 2. The switching center of daim 1, wherein the first interfaces comprises:
  - a first intrasystem message handler; and
- a first intersystem message handler, and wherein the second interface comprises:

a second intrasystem message handler; and

a second intersystem message handler.

- 3. The switching center of claim 2, wherein the first intrasystem message handler operates according to IS-634 protocols, the second intrasystem and intersystem message handlers operate according to GSM protocols, and the first intersystem message handler operates according to IS-41 protocols.
- 4. The switching center of claim 3, wherein the GSM protocols include GSM A (Series 4 and 8) protocols, IS-651 and J-STD protocols, IS-652 protocols and GSM 09.02 protocols.
- 5. The switching center of claim 3, wherein the IS-634 and the IS-41 protocols include time division multiple access (TDMA) protocols and code division multiple access (CDMA) protocols and AMPS protocols.

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- 6. The switching center of claim 1, wherein the first interface further receives and sends analog messaging, the analog messaging including Advanced Mobile Telephone System (AMP\$) protocols.
  - 7. The switching center of claim 6, wherein the AMPS protocols include IS-634 protocols and ISDN PRI+ protocols and proprietary protocols.
    - 8. The switching center of claim 1, further comprising:
      a home location register coupled to the processor system; and

a visitor location register coupled to the home location register and the processor system, wherein the home location register stores permanent data related to customers of the communications system that are homed on the communications system, and wherein the visitor location register stores temporary data related to customers that are active on the communications system, the home location register and the visitor location register indicating a most recent protocol used by a wireless communications device of a customer and indicating other protocols useable by the wireless communications device.

- 9. The switching center of claim 8, wherein the permanent data related to customers in the home location register is stored in a customer profile, the customer profile including one or more of call features, call restrictions, mobile unit protocols, line identification, personal identification number, call offering, prepaid services and customer information.
- 10. The switching center of claim 8, wherein the home location register includes a common data section and protocol-specific data sections, wherein the common data section stores data generic to all protocols and the protocol-specific data sections stores data unique to one or more specific protocols.
- 11. The switching center of claim 8, wherein the processor system determines a protocol of a wireless communications device by reference to one of the home location register and the visitor location register.
- 28 12. The switching center of claim 1, wherein the communications system includes one or more base stations, and wherein the processor system determines a protocol of

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- a wireless communications device based on a protocol of the base station that communicates between the switching center and the wireless communications device.
- 13. The switching center of claim 1, wherein the communications system includes
  a multi-protocol base station, the multi-protocol base station sending base station
  control messages to the switching center, and wherein the processor system
  determines a protocol of a wireless communications device by interpreting protocol

data contained in the base station control message.

- 14. The switching center of claim 1, wherein the communications system receives communications from an external wireless system having an external home location register and an external communications device registered on the external home location register, and wherein the processor system determines a protocol of the external communications device by obtaining an identification of the external home location register.
  - 15. The switching center of claim 1, wherein the processor system generates and interprets generic command messages, the generic command messages operable to control the communications services according to at least the first and the second protocols.
  - 16. The switching center of claim 1, wherein the processor system generates and interprets protocol-specific command messages, the protocol-specific command messages used to provide additional control of the communications services.
- 21 17. The switching center of claim 1, further comprising an asynchronous transfer 22 mode (ATM) interface, the ATM interface providing wireless ATM communications 23 and other packet board communications.
- 24 18. The switching center of claim 1 further comprising a public switched telephone network (PSTN) interface.
- 26 19. The switching center of claim 1, further comprising a private branch exchange (PBX) interface.

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communications;

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1	20.	The switching center of claim 1, wherein the wireless communications devices
2	include	e a fixed wireless telephone, a mobile telephone and a computer having a
3	wireles	s modem.
4	21.	The witching center of claim 1, further comprising:
5		an equipment identification register, wherein the equipment identification
6	registe	r includes serial number data related to the mobile communications devices that
7	are hor	med on the wireless communications system; and
8		an authentication center, wherein the authentication center provides
9	authen	tication and encryption parameters for wireless communications received at and
10	origina	ated from the witching center.
11	22.	The switching center of claim 1, further comprising:
12		a first device handler coupled to the first interface; and
13		a second device handler coupled to the second interface, wherein the first and
14	the sec	ond device handlers are operable to receive and transmit multi-protocol
15	messag	ging from and to devices external to the switching center and to transmit and
16	receive	e generic messaging to and from the first and the second interfaces, respectively.
17	23.	The switching center of claim 1, wherein the processing system comprises:
18		a central processor, the central processor controlling operation of the processor
19	system	:

an authentication and registration system, the authentication and registration system controlling registration of the wireless communications devices with the communications system and providing encryption and ciphering of voice and data

a paging system, the paging system sending paging messages to the wireless communications devices and receiving page response messages from the wireless communications devices;

a timer system, the timer system setting timers in response to operations of the processing system;

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a recovery and startup system, the recovery and startup system managing a status of communications trunks in the communications system and performing audits of the communications system; and

a memory, wherein the memory stores information related to a particular call in a memory area, and wherein components of the processor system access the memory area to retrieve and store information related to the particular call.

- 24. The switching center of claim 23, wherein the processor system further comprises a hand off processor, the hand off processor receiving and processing hand off requests from a wireless communications device in the communications system, determining a target base station for hand off and sending a hand off command to the wireless communications device.
- 25. The switching center of claim 23, wherein the processor system operates to reserve a voice channel with each base station in the communications system that is capable of receiving communications from the wireless communications device, and wherein the processor system operates to release all base stations having a reserved voice channel, except the target base station, upon receipt by the processor system of a call connect acknowledge message,
- The switching center of claim 1, further comprising a graphical user interface, 26. the graphical user interface providing\an operator access to operate the switching center and to update data related to the customers, database configuration, system configuration and maintenance.
- 27. A mobile switching center, comprising:

a central processor that processes incoming signals, wherein the incoming signals are switched in a telecommunications network; and

a wireless interface module that supports two or more wireless protocols.

- 28. The mobile switching center of claim 27, further comprising a switch management module that manages the switching of the incoming signals.
- The mobile switching center of claim 27, wherein the wireless interface 29. module comprises a digital interface that supports digital wireless communications.

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- The mobile switching center of claim 27, wherein the wireless interface 1 30.
- module comprises an analog interface that supports analog wireless communications. 2
- 3 31. The mobile switching center of claim 27, wherein the wireless interface
- 4 module comprises a GSM interface that supports GSM protocol wireless
- 5 communications.
- 32. 6 The mobile switching center of claim 27, wherein the wireless interface
- 7 module comprises a TDMA interface that supports TDMA protocol wireless
- 8 communications.
- 9 33. The mobile switching center of claim 27, wherein the wireless interface
- module comprises a CDMA interface that supports CDMA protocol wireless 10
- 11 communications.
- 12 34. The mobile switching center of claim 27, wherein the wireless interface
- module comprises a AMPS interface that supports AMPS protocol wireless 13
- 14 communications.
- 15 35. The mobile switching center of claim 27, wherein the wireless interface
- module comprises a DAMPS interface that supports DAMPS protocol wireless 16
  - 17 communications.
  - 口 18 口 口 口 19 36. The mobile switching center of claim 27, further comprising a visitor location
    - register that stores information about visiting switch users.
    - 37. The mobile switching center of claim 27, further comprising a home location
    - **-**21 register that stores information about home switch users.
      - The mobile switching center of claim 27, further comprising a wired interface 22 38.
    - 23 module that provides connections to wired land-lines.
    - 24 39. The mobile switching center of claim 27, further comprising a graphical user
    - 25 interface that allows an operator to operate the mobile switching center.
    - The mobile switching benter of claim 39, wherein the graphical user interface 26 40.
    - 27 is remotely located from the mobile switching center.

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1 41. The mobile switching center of claim 27, further comprising an equipment identification register which stores information identifying equipment used with to mobile switching center.  4 42. The mobile switching center of claim 27, further comprising a prepaid most that enables prepaid communication.  43. The mobile switching center of claim 27, further comprising a features most that supports a plurality of communication features.  44. The mobile switching center of claim 27, further comprising a remote network management access module that is remotely located from and operably connected the mobile switching center.  45. The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals.  46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or to base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	dule dule vork to
mobile switching center.  42. The mobile switching center of claim 27, further comprising a prepaid most that enables prepaid communication.  43. The mobile switching center of claim 27, further comprising a features most that supports a plurality of communication features.  44. The mobile switching center of claim 27, further comprising a remote network management access module that is remotely located from and operably connected the mobile switching center.  45. The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals.  46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or a base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	dule dule work to
42. The mobile switching center of claim 27, further comprising a prepaid most that enables prepaid communication. 43. The mobile switching center of claim 27, further comprising a features most that supports a plurality of communication features. 44. The mobile switching center of claim 27, further comprising a remote network management access module that is remotely located from and operably connected the mobile switching center. 45. The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals. 46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or a base stations, the advanced intelligent message handler, comprising: a first interface for intersystem messaging, the first interface, comprising:	odule vork to
that enables prepaid communication.  43. The mobile switching center of claim 27, further comprising a features mothat supports a plurality of communication features.  44. The mobile switching center of claim 27, further comprising a remote network management access module that is remotely located from and operably connected the mobile switching center.  45. The mobile switching center of claim 27, further comprising an authenticate center that authenticates incoming signals.  46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or in base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	odule vork to
43. The mobile switching center of claim 27, further comprising a features most that supports a plurality of communication features.  44. The mobile switching center of claim 27, further comprising a remote network management access module that is remotely located from and operably connected the mobile switching center.  45. The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals.  46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	work to tion
that supports a plurality of communication features.  44. The mobile switching center of claim 27, further comprising a remote network management access module that is remotely located from and operably connected the mobile switching center.  45. The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals.  46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or in base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	work to tion
44. The mobile switching center of claim 27, further comprising a remote network management access module that is remotely located from and operably connected the mobile switching center.  45. The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals.  46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	to tion
management access module that is remotely located from and operably connected the mobile switching center.  The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals.  An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	to tion
the mobile switching center.  11 45. The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals.  13 46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or base stations, the advanced intelligent message handler, comprising:  16 a first interface for intersystem messaging, the first interface, comprising:	tion
11 45. The mobile switching center of claim 27, further comprising an authentical center that authenticates incoming signals.  13 46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or to base stations, the advanced intelligent message handler, comprising:  15 a first interface for intersystem messaging, the first interface, comprising:	
center that authenticates incoming signals.  46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or a base stations, the advanced intelligent message handler, comprising: a first interface for intersystem messaging, the first interface, comprising:	
46. An advanced intelligent message handler for use in a mobile telecommunications network having mobile communications devices and one or in base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	nore
telecommunications network having mobile communications devices and one or responsible base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	nore
base stations, the advanced intelligent message handler, comprising:  a first interface for intersystem messaging, the first interface, comprising:	nore
a first interface for intersystem messaging, the first interface, comprising:	
a first GSM processing thread,	
a first TDMA processing thread,	
a first CDMA processing thread, and	
a first AMPS processing thread;	
21 a second interface for intrasystem messaging, the second interface, compri	sing
22 a second GSM processing thread,	
23 a second TDMA processing thread,	
24 a second CDMA processing thread, and	
a second AMPS processing thread; and	
a processor system coupled to the first and the second interfaces, the processor	SSOI
27 system controlling a flow of message traffic to and from the first and the second	
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47. A method for controlling communications in a multi-protocol wireless network, comprising:

receiving first digital communications according to a first protocol at a first interface;

sending a first control message according to the first protocol;

receiving second digital communications according to a second protocol at a second interface; and

sending a second control message according to the second protocol, wherein a processor in a switching center interprets the first and the second digital communications and generates the first and the second control messages.

- 48. The method of claim 47, further comprising; receiving intrasystem communications at a intrasystem message handler; and receiving intersystem communications at a intersystem message handler.
- 49. The method of claim 48, wherein the intrasystem message handler operates according to IS-634 and GSM standards and the intersystem message handler operates according to IS-41 and GSM standards.
- 50. The method of claim 49, wherein the GSM protocols include GSM A protocols, IS-651 protocols, IS-652 protocols and GSM 09.02 protocols.
- 51. The method of claim 49, wherein the IS-634 and IS-41 protocols include time division multiple access (TDMA) protocols and code division multiple access (CDMA) protocols and AMP protocols.
- 52. The method of claim 47, wherein the first interface further receives and sends analog communications, the analog communications including Advanced Mobile Telephone System (AMPS) protocols.
- The method of claim 52, wherein the AMPS protocols include IS-634
   protocols and ISDN PRI+ protocols and proprietary protocols.
  - 54. The method of claim 47, further comprising:

    creating a home location register, the home location register including a

    customer profile for each mobile unit in the multi-protocol wireless network, the

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customer profile in	dicating protocols available to the mobile and a most recent
protocol used by the	mobile unit; and

creating a visitor location register, the visitor location register containing the customer profile for each mobile unit that is active in the multi-protocol wireless network.

- 55. The method of claim 54, wherein the customer profile further includes call features, call restriction, line identification, personal identification number, call offering and prepaid services.
- 56. The method of claim 34, wherein the home location register includes a common data section and a protocol-specific data section, the common data section storing data generic to all protocols and the protocol-specific data sections storing data unique to one or more protocols.
  - 57. The method of claim 54, further comprising determining a protocol of a wireless communications device by reference to one of the home location register and the visitor location register.
  - 58. The method of claim 47, further comprising determining a protocol of a wireless communications device by reference to a protocol of a base station that communicates with the switching center.
  - 59. The method of claim 47, wherein the multi-protocol wireless network includes one or more multi-protocol base stations, wherein the processor determines a protocol of a wireless communications device by interpreting protocol data contained in communications from the one or more multi-protocol base stations.
  - 60. The method of claim 47, further comprising:

receiving communications from an external communications device from a wireless network external to the multi-protocol wireless network, the external wireless network including an external home location register; and

determining a protocol of the external communications device by obtaining an identification of the external home location register.

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1	61.	The metho	od of claim 47, wherein the processor generates and interprets
2	generio	messages,	the generic messages providing generic control signals to control

The method of claim 47, wherein the processor generates and interprets protocol-specific messages, the protocol-specific messages providing additional

operation of the multi-protocol wireless network.

- 6 control of the communications devices.
- 7 63. The method of claim 47, further comprising providing packet based communications.
- 9 64. The method of claim 63, further comprising providing an asynchronous transfer mode (ATM) interface providing wireless ATM communications.
- 11 65. The method of claim 64, wherein the ATM interface provides PSTN connectivity and an extension of a switch matrix.
- 13 66. The method of claim 47, further comprising connecting the switching center to a public switched telephone network (PSTN).
- 15 67. The method of claim 47, further comprising connecting the switching center to a private branch exchange.
  - 68. The method of claim 47, wherein the communications devices include a fixed wireless telephone, a mobile telephone and a computer having a wireless modem.
    - 69. The method of claim 47, further comprising:
      recording an identity of a mobile device; and
      encrypting and decrypting the first and the second digital communications.
- 70. The method of claim 47, further comprising:
  receiving first communications at and sending first communications from a

24 first device handler coupled to the first interface; and

receiving second communications at and sending second communications from a second device handler coupled to the second interface, wherein the first and the second device handlers are operable to receive and transmit multi-protocol communications.

71. The method of claim 47, further comprising:

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1	sending and receiving registration notification messages to register a mobile
2	unit in a visitor location register;
3	sending and receiving paging messages to access a mobile unit in the multi-
4	protocol wireless network;
5	setting a timer to time out control messages;
6	maintaining a status of communications trunks in the multi-protocol wireless
7	network; and
8	storing data related to a particular call in a common memory area, the data fo
9	the particular call used by components of the multi-purpose wireless network to
10	control and access the particular call.
11	72. The method of claim 47, further comprising;
12	monitoring a signal strength of communications with a mobile
13	communications device;
14	sending a hand off request when the signal strength exceed a limit;
15	measuring signal-strengths of each of the other base stations in the multi-
16	protocol wireless network;
17	reserving a voice channel in each of the other base stations; and
18	selecting a target base station for communication with the mobile
19	communications device; and
20	handing off the mobile communications based on the measurements.
21	73. The method of claim 47, further comprising providing a graphical user
22	interface to the switching center, the graphical user interface allowing an operator to
23	update information stored by the switching center.
24	74. The method of claim 47, further comprising;
25	designating a first communications trunk, the first communications trunk
26	carrying the first control message, wherein the first communications trunk connects
27	first base station and the switching center; and

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	designating a second communications trunk, the second communications trunk
carryi	the second control message, wherein the second communications trunk
conne	cts a second base station and the switching center.
75.	The method of claim 47, wherein the switching center comprises a plurality of
comm	unications trunks, the switching center designating one or more of the plurality
of the	communications trunks for use in connecting wireless calls.
76.	The method of claim 75, wherein the switching center tracks a state of each
comm	unications trunk of the plurality of communications trunks.
77.	The method of claim 76, wherein a state of a communications trunk may be
one of	not configured, blocked, unblocked, unblocked pending, call processing,
blocke	ed pending and maintenance.
78.	The method of claim 77, wherein the communications trunk transitions from
the no	t configured state to the blocked state when a base station is activated in the
wirele	ss network.
79.	The method of claim 77, wherein the communications trunk transitions from
the blo	ocked state to the unblocked pending state based on a recovery request.
80.	The method of claim $7$ wherein the communications trunk transitions from
the un	blocked state to the call processing state when a base station is allocated for call
proces	ssing.
81.	The method of claim 47, further comprising:
	receiving a call from a prepaid customer;
	processing the call from the prepaid customer;
	determining an allowed time of call based on a prepaid account for the prepaid
custor	ner;
	determining a warning time for the call, wherein the warning time is a time
less th	an the allowed time;
	connecting the call;
•	monitoring a time of the call;

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1		providing a warning to the prepaid customer when the warning time occurs;
2	and	
3		disconnecting the call when the allowed time is reached.
4	82.	The method of claim 81, further comprising
5		providing a plurality of rate plans, wherein the prepaid customer may select a
6	desire	ed rate plan from the plurality of rate plans.
7	83.	The method of claim 82 wherein the desired rate plan is stored in a home
8	location	on register.
9	84.	The method of claim 81, further comprising
10		determining a least cost route for the call from the prepaid customer.
11	85.	The method of claim 81, further comprising:
12		at a completion of the call from the prepaid customer, computing an actual
13	cost fo	or the call; and
14		updating the prepaid account, based on the actual cost for the call.
15	86.	A graphical user interface (GUI) for use with a scalable, wireless switching
<b>/</b> 16	center	c, comprising:
17		a home location register (HLR) GUI hierarchy;
18		a visitor location register (VLR) GUI hierarchy;
19		a database management GUI hierarchy;
20		a system configuration GUI hierarchy; and
21		a call record manager GUN hierarchy, wherein GUIs provide access to data that
22	contro	ols operation of the switching center.
23	87.	The GUI of claim 86, further comprising a rate plan hierarchy GUI.
24	88.	The GUI of claim 86, wherein the HLR GUI hierarchy comprises:
25		a password GUI;
26		a HLR access GUI; and

a network serviced by the switching center.

protocol-specific HLR GUIs, wherein the HLR access GUI lists subscribers to

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1	89. The GUI of claim 88, wherein the protocol-specific HLR GUI	s include one of
2	GSM, CDMA TDMA, AMPS, multiple-protocol and prepaid.	
2	OO The CITI of claims 00 miles in the sentence of associate III D CITI	

- 3 90. The GUI of claim 88, wherein the protocol-specific HLR GUIs comprise a subscriber profile GUI.
- 5 91. The GUI of claim 90, wherein the subscriber profile GUI includes: 6 a subscriber definition window;
- 7 a call offering window;
- 8 a protocol window;
- 9 a call restriction window;
- 10 a call feature window;
- 11 a line identification window; and
- an add, modify, delete window that allows a subscriber's profile to be updated.
- 13 92. The GUI of claim\86, wherein the VLR GUI hierarchy comprises:
- a password GUI;
- 15 a VLR access GUI; and
  - protocol-specific VLR GUIs, wherein the VLR access GUI lists subscribers active on a network serviced by the switching center.
  - 93. The GUI of claim 82, wherein the protocol-specific VLR GUIs include one of GSM, CDMA, TDMA, AMPS, multiple-protocol and prepaid.
- 20 94. The GUI of claim 92, wherein the protocol-specific VLR GUIs comprise a subscriber profile GUI.
- 22 95. The GUI of claim 94, wherein the subscriber profile GUI includes:
- a subscriber definition window;
- 24 a call offering window;
- 25 a protocol window;
- 26 a call restriction window;
- 27 a call feature window;
- 28 a line identification window;
- 29 a call feature window; and

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3	compr	ises: \
4		a trunk maintenance GUI, the trunk maintenance GUI including:
5		a span and channel selection, and
6		a change channel state selection.
7	97.	The GUI of claim 86, wherein the system configuration GUI hierarchy,
8	compr	ises:
9		a board configuration including a modify module that allows a board to be
10	reconf	igured.
11	98.	The GUI of claim 97, wherein the board includes one of a T-1/E-1 board, a
12	voice l	VO board, a conference board and a SS-7 board.
13	99.	The GUI of claim 86, wherein the call record GUI includes an archived data
14	windo	w. \
15	100.	The GUI of claim 86, wherein the call record GUI includes an output selection
16	GUI, t	he output selection dUI providing one of a display selection, a printer selection,
17	no sele	ection and other output selection.
18	101.	The GUI of claim 86, wherein the call record GUI includes an auto-removal
19	GUI, t	he auto-removal GUI including a number of days before removing archived
20	files se	election.
21	102.	The GUI of claim 87, wherein the rate plan hierarchy GUI, comprises:
22		a rating administration tab, the rating administration tab displaying a list of
23	distrib	utors;
24		a distributor data GUI;

an add, modify, delete window that allows a subscriber profile to be updated.

the GUI of claim 86, wherein the system configuration GUI hierarchy,

The GUI of claim 102, wherein the rate plan hierarchy GUI further comprises 27 103. a modify prepaid entry GUI. 28

The GUI of claim 103, wherein the prepaid entry GUI, comprises: 104.

a modify distributor data GUI; and

a modify rate plan GUI.

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a balance window;

a rate information window;

a paymen method window; and

an other features window.

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